	Changed a file from non-ASCII to ASCII ENTER Edited by: (STIC
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was   the prior application data; or  other
	Added the mandatory heading and subheadings for "Current Application Data".
1	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an intege
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	nserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the pplicant placed a response below the subheading, this was moved to its appropriate place.
1	Inserted colons after headings/subheadings. Headings edited included:
E	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
•	Corrected an obvious error in the response, specifically:
1	Edited identifiers where upper case is used but lower case is required, or vice versa.
(	Corrected an error in the Number of Sequences field, specifically:
4	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	eleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error to a Patentin bug). Sequences corrected:
	Other:

Action. DO NOT send a copy of this form.

3/1/95



Input Set : A:\PTO.AMC.txt

	3	<110			CANT :			?. Mo	onia										
	_	Z120						J - 201	וסדתו	ENCE	MODI	ייי ע. דד	TON (	ים יגו	יא גי	TNACI	E D110	מיי.זיאמ	EXPRESSION
		<130								111011	HOD	JUAL	LON	)		LINAU	D LIIO	DELLY	EXPRESSION
c>										R : 119	S/10.	/049	743						
		<141										, 045	,,,,						
•		<150										57.07	70						
		<151									• • • • • • • • • • • • • • • • • • • •	., .							
		<160																	
		<210																	
		<211:																	
	20	<212> TYPE: DNA																	
		<213> ORGANISM: Homo sapiens																	
		<220> FEATURE: <221> NAME/KEY: CDS																	
	24	<221	> NA	ME/F	KEY:	CDS													
	25	<222	> LC	CAT	ON:	(197	7)(	(333)	L)										
	27	<400	> SE	EQUE1	ICE:	1													
	28	gaat	tcgg	ca c	gago	egge	eg eg	gagca	agago	c cgc	ccca	gccc	tgc	cagct	ge g	geeg	ggacga	60	
																	ctgcca	120	
		ggcggagggg gctttgctgg tctttcttgg actattccag agaggacaac tgtcatctgg 180																	
	34	4 gaagtaacaa cgcagg atg ccc cct ggg gtg gac tgc ccc atg gaa ttc 229																	
	35																		
	36						1				5				_	10			
		tġg a																277	
		Trp !	Thr	Lys		Glu	Asn	Gln	Ser		Val	Val	Asp	Phe		Leu	Pro		
	40				15					20					25				
		aca																325	
		Thr (	ЗІУ		Tyr	Leu	Asn	Phe		Val	Ser	Arg	Asn		Asn	Leu	Ser		
	44			30					35					40				0.70	
		acc a																373	•
	4 7	Thr :	45	гÀг	GIII	Leu	тeп	50	HIS	Arg	Ala	GIU	77r 55	GIU	Pro	ьeu	Pne		
		000		a+ a	2~+	~~~	000		~~~	+ - +	~+~	++~		+~~	2+0	226	an a	421	
		cac a																421	
	52	60	ne c	neu	Ser	дту	65	GIU	ALG	тут	Val	70	TIIT	Cys	116	ASII	75		
		aca	700	a a a	Car	022		ata	asa	as a	asa		000	oat	ata	t at		469	
		Thr A																403	
	56			JIU	3111	80	, <b>J</b>	LCu	Jiu	op	85	0111	.,,,	-11 9	LCu	90	3P		
		gtg (	cao	CCC	tte		ccc	atc	cta	ggg		ata	add	cat	σασ		gac	517	
		Val (																J.,	
	60				95					100				9	105	1	<b>-</b> F		
		cgc (	ata	aag		ctc	atc	aac	tca		atc	aqc	ctc	ctc		qqc	aaa	565	
		Arg '																	
		-		-	-											-	-		

Input Set : A:\PTO.AMC.txt

65			110					115					120				
65	~~~	a+ a	110	~~~	+++	~~ <i>a</i>	+00		+ ~ ~	<b>~</b> ~ ~	000	<b>423</b>		224	~~~	+++	613
				gag													013
	GIY		HIS	Glu	Pne	Asp		Leu	Cys	Asp	PIO		vaı	ASI	ASP	Pne	
69		125					130					135					661
				atg													661
	-	Ala	Lys	Met	Cys		Phe	Cys	GLu	Glu		Ala	Ala	Arg	Arg		
	140					145					150					155	
		_	_	tgg													709
76	Gln	Leu	Gly	Trp		Ala	$\mathtt{Trp}$	Leu	Gln	_	Ser	Phe	Pro	Leu		Leu	
77					160					165					170		
				gct													757
80	Glu	${\tt Pro}$	Ser	Ala	Gln	Thr	Trp	Gly	Pro	Gly	Thr	Leu	Arg	Leu	Pro	Asn	
81				175					180					185			
83	cgg	gcc	ctt	ctg	gtc	aac	gtt	aag	ttt	gag	ggc	agc	gag	gag	agc	ttc	805
84	Arg	Ala	Leu	Leu	Val	Asn	Val	Lys	Phe	Glu	Gly	Ser	Glu	Glu	Ser	Phe	
85			190					195					200				
87	acc	ttc	cag	gtg	tcc	acc	aag	gac	gtg	ccg	ctg	gcg	ctg	atg	gcc	tgt	853
			_	Val			_	-		_	_		_	_	-	_	
89		205					210	•				215				-	
	acc	cta	caa	aag	aaq	αcc	aca	ata	ttc	caa	caq	cca	cta	ata	gag	caq	901
	_	_		Lys	_	_					_	_	_			_	
	220		5	-15	-1-	225				- 1 - 3	230					235	
		паа	пас	tac	асσ		cad	ata	aac	aac		cat	gag	tac	cta		949
	_	-	-	Tyr	_	_	_						-		_		3.13
97	110	GIU	nsp	111	240	БСц	0111	VUI	MOII	245	my	1113	Olu	- 1 -	250	-1-	
	~~~	240	+20	ccg		taa	020	++0	020		2+0	taa	200	+ 00		020	997
		-		-		-	_		_			-	-	_	_	His	551
101	_	361	. тул	255		. Суз	GIII	r	260	_		e Cya	) DCT	265		11113	
		. ~~	. ++.									+	. +			ata	1045
																ctc Leu	1043
		. GI			PIO	urs	ьеи			. vaı	LUTS	5 Se1			. 116	ььеи	
105			27(		~~~			275		. ~~			280				1003
	-															ccg	1093
			_	J ASP	GIU	GIn			Pro	) Ale	Pro			GLI	гга	Pro	
109		285					290					295					
	_	_								_	_					tcc	1141
	_		Lys	s Pro	Pro			Pro	) Ala	Lys	_		Ser	ser	· vai	. Ser	
	300					305					310					315	
																agc	1189
		ıTr	Sei	Leu			Pro	Phe	Arg			Let	ı Ile	Glr		Ser	
117					320					325					330		
																ctt	1237
120	) Lys	va]	l Asr	ı Ala	Asp	Glu	Arg	Met	Lys	Lev	ı Val	. Val	Gln	Ala	Gly	Leu	
121				335					340					345			
																gtg	1285
124	Phe	His	Gl <sub>y</sub>	/ Asn	Glu	Met	Leu	Cys	Lys	Thr	· Val	. sei	Ser	Ser	Glu	. Val	
125	5		350	)				355	<b>,</b>				360	ı			
127	ago	gtg	, tgc	tcg:	gag	ccc	gtg	tgg	aag	cag	g cgg	cto	g gag	tto	gac	atc	1333
																Ile	
129	)	365	5				370					375	5				

Input Set : A:\PTO.AMC.txt

												tgc					1381
		Ile	Cys	Asp	Leu		Arg	Met	Ala	Arg		Cys	Phe	Ala	Leu	_	
133						385					390		~			395	1400
												acc					1429
	Ата	val	тте	GIU	_	Ата	гÃг	тÃR	Ата	-	ser	Thr	ьуѕ	ьуѕ	_	ser	
137		~	~~~	~~~	400		-++	~~~	+~~	405		a+ a	2+4	a+ ~	410	<b>~</b> ~ ~	1477
	_	_		-	-			_		-		ctc Leu	_	-		-	14//
141	ьys	гуѕ	Ата	415	Cys	PIO	TTE	Ala	420	Ата	ASII	ьец	Met	425	Pile	ASP	
	+20	224	<b>a</b> =0		att	220	200	aaa		cac	tac	ctc	tac		taa	CCC	1525
												Leu					1,52,5
145	1 7 1	БуЗ	430	G111	Бец	Lys	1111	435	GIU	лгу	CYS	Бец	440	ncc	112	110	
	tcc	atc		σat	σασ	ааσ	aac		cta	cta	aac	ccc		aac	act	ata	1573
												Pro					2373
149	001	445	110	шь	OLU	275	450	014	200	Leu	11011	455		<u>- 7</u>		· ~ _	
	cac		aac	ccc	aac	acσ		agc	acc	act	qcc	ctg	ctc	atc	tac	cta	1621
												Leu					
153	-					465	_				470				-	475	
155	ccc	gag	qtq	qcc	ccq	cac	ccc	gtg	tac	tac	ccc	gcc	ctg	gag	aag	atc	1669
												Āla					
157					480				-	485					490		
159	ttg	gag	ctg	ggg	cga	cac	agc	gag	tgt	gtg	cat	gtc	acc	gag	gag	gag	1717
160	Leu	Glu	Leu	Gly	Arg	His	Ser	Glu	Cys	Val	His	Val	Thr	Glu	Glu	Glu	
161				495					500					505			
163	cag	ctg	cag	ctg	cgg	gaa	atc	ctg	gag	cgg	cgg	ggg	tct	ggg	gag	ctg	1765
164	Gln	Leu	Gln	Leu	Arg	Glu	Ile	Leu	Glu	Arg	Arg	Gly	Ser	Gly	Glu	Leu	
165			510					515					520				
												cgg					1813
	Tyr		His	Glu	Lys	Asp		Val	$\mathtt{Trp}$	Lys	Leu	Arg	His	Glu	Val	Gln	
169		525					530					535					
												ctg					1861
		His	Phe	Pro	Glu		Leu	Ala	Arg	Leu		Leu	Val	Thr	Lys	-	
173						545				_4_	550	_ 4			<b>.</b>	555	1000
												ctg					1909
	Asn	гÃг	HIS	GIU	_	val	Ala	GIN	мет		Tyr	Leu	Leu	Cys		Trp	
177	~~~	~~~	~+ <i>~</i>		560	at a	200	~~~	a+ a	565	a+ a	a+ >	~~~	++ ~	570	++0	1957
												cta Leu					1957
181	PIO	GIU	Leu	575	Val	ьеи	Ser	Ата	580	GIU	ьеи	ьеu	ASP	585	ser	Pile	
	000	a t	tac		at a	aac	tac	tta		ato	220	tcg	cta		222	ata	2005
												Ser					2003
185	110	пэр	590	1113	VUI	OLY	561	595	niu	110	цуз	DCI	600	nry	цуз	Deu	
	aca	gac		σασ	cta	ttc	caσ		cta	cta	caq	ctg		саσ	ata	ctc	2053
												Leu					2033
189		605		0			610	-1-			<b></b>	615	,	·		200	
	aaσ		gag	tcc	tac	cta		tac	σασ	ct.a	acc	aaa	ttc	cta	ct.a	gac	2101
												Lys					
193						625	- E				630					635	
		qcc	ctq	gcc	aac		aaq	atc	qqc	cac		ctt	ttc	taa	cac		2149
	22	-	_	-		_	_			-	-		-		-		_



Input Set : A:\PTO.AMC.txt

196 197	Arg	Ala	Leu	Ala	Asn 640	Arg	Lys	Ile	Gly	His 645	Phe	Leu	Phe	Trp	His 650	Leu	
199	cac	tec	σασ	atα	cac	gtg	CCG	tca	ata	acc	cta	cac	ttc	aac	ctc	atc	2197
																	2177
	Arg	ser	GIU		HIS	Val	PIO	ser		Ата	ьеи	Arg	Pne		Leu	тте	
201				655					660					665			
203	ctg	gag	gcc	tac	tgc	agg	ggc	agg	acc	cac	cac	atg	aag	gtg	ctg	atg	2245
204	Leu	Glu	Ala	Tvr	Cvs	Arg	Glv	Ara	Thr	His	His	Met	Lvs	Val	Leu	Met	
205			670	- 4	- 4			675	_				680				
	~	~~~		~	~~~	a+ ~	200		~+~		~~~	a+ ~		~~~	++~	~+~	2202
						ctg											2293
	гля	GIn	GTĀ	Glu	Ата	Leu	ser	Lys	Leu	ьуs	Ата	Leu	Asn	Asp	Pne	Val	
209		685					690					695					
211	aaq	ctq	aqc	tct	caq	aag	acc	ccc	aaq	ccc	caq	acc	aaq	qaq	ctq	atq	2341
						Lys											
	700			001	0_1.2	705		110			710		_,	0.2.4	200	715	
																	0000
						cag											2389
216	His	Leu	Cys	Met	Arg	Gln	Glu	Ala	${ t Tyr}$	Leu	Glu	Ala	Leu	Ser	His	Leu	
217					720					725					730		
219	cag	tcc	cca	ctc	gac	ccc	agc	acc	cta	cta	act	gaa	atc	tac	ata	gag	2437
						Pro											
	GIN	Jer	110		изр	110	Der	1111		пси	nia	GIU	Vai	-	Val	GIU	
221		_		735					740				_	745			
						gac											2485
224	Gln	Cys	Thr	Phe	Met	Asp	Ser	Lys	Met	Lys	Pro	Leu	Trp	Ile	Met	Tyr	
225			750					755					760				
	agg	aac	σασ	nan	αca	gġc	age	aac	aac	age	αtα	aac	atc	atc	+++	aad	2533
																	2555
	ser		GIU	GIU	нта	Gly		Gry	GIY	261	vai		116	116	Pile	Lys	
229		765					770					775					
231	aac	ggg	gat	gac	ctc	cgg	cag	gac	atg	ctg	acc	ctg	cag	atg	atc	cag	2581
232	Asn	Gly	Asp	Asp	Leu	Arg	Gln	Asp	Met	Leu	Thr	Leu	Gln	Met	Ile	Gln	
233		_	_	_		785		_			790					795	
		ato	gac	atc	cta	tgg	aar	cad	αaα	aaa	-	ma.c	cta	agg	atσ	-	2629
																	2029
	Leu	Met	ASP	vaı		Trp	ry	GIII	GIU	_	ьeu	ASP	Leu	AIG		THI	
237					800					805					810		
239	ccc	tat	ggc	tgc	ctc	CCC	acc	ggg	gac	cgc	aca	ggc	ctc	att	gag	gtg	2677
240	Pro	Tyr	Gly	Cys	Leu	Pro	Thr	Gly	Asp	Arg	Thr	Gly	Leu	Ile	Glu	Val	
241		-	_	815				_	820	-		_		825			
_	αta	ctc	cat	tca	gac	acc	atc	acc	aac	atc	caa	ctc	220		age	aac	2725
																	2123
	vaı	ьeu	_	ser	ASP	Thr	TTE		ASII	тте	GIII	ьeu		гĀR	ser	ASII	
245			830					835					840				
247	atg	gca	gcc	aca	gcc	gcc	ttc	aac	aag	gat	gcc	ctg	ctc	aac	tgg	ctg	2773
248	Met	Ala	Ala	Thr	Ala	Ala	Phe	Asn	Lys	Asp	Ala	Leu	Leu	Asn	Trp	Leu	
249		845					850		-	_		855			-		
	220		220	220	000	ggg		aaa	ot a	ant.	002		2++	~~~	~~~	++0	2821
																	Z0Z1
		ser	гуу	ASI	PLO	Gly	GIU	ATG	ьeu	ASP	_	Ald	тте	GIU	GIU		
253						865					870					875	
255	acc	ctc	tcc	tgt	gct	ggc	tat	tgt	gtg	gcc	aca	tat	gtg	ctg	ggc	att	2869
256	Thr	Leu	Ser	Cys	Ala	Gly	Tyr	Cys	Val	Ala	Thr	Tyr	Val	Leu	Gly	Ile	
257				-	880	-	-	-		885		-	.=		890	=	
	aac	ra+	caa	Cac		gac	220	ato	ata		002	nan	a a+	aaa		ata	2917
																	231/
∠6U	eтÀ	ASP	Arg	HIS	ser	Asp	ASN	тте	мет	тте	arg	GLU	ser	ста	GIN	ьeu	

Input Set : A:\PTO.AMC.txt

261				895					900					905			
										ggg							2965
264	Phe	His	Ile	Asp	Phe	Gly	His		Leu	Gly	Asn	Phe		Thr	Lys	Phe	
265			910					915					920				
267	gga	atc	aac	cgc	gag	cgt	gtc	cca	ttc	atc	ctc	acc	tac	gac	ttt	gtc	3013
268	Gly	Ile	Asn	Arg	Glu	Arg		Pro	Phe	Ile	Leu		Tyr	Asp	Phe	Val	
269		925					930					935					
271	cat	gtg	att	cag	cag	ggg	aag	act	aat	aat	agt	gag	aaa	ttt	gaa	cgg	3061
272	His	Val	Ile	Gln	Gln	Gly	Lys	Thr	Asn	Asn	Ser	Glu	Lys	Phe	Glu	Arg	
273						945					950					955	
275	ttc	cgg	ggc	tac	tgt	gaa	agg	gcc	tac	acc	atc	ctg	cgg	cgc	cac	ggg	3109
276	Phe	Arg	Gly	Tyr	Cys	$\operatorname{Glu}$	Arg	Ala	Tyr	Thr	Ile	Leu	Arg	Arg	His	Gly	
277			_		960					965					970		
279	ctt	ctc	ttc	ctc	cac	ctc	ttt	gcc	ctg	atg	cgg	gcg	gca	ggc	ctg	cct	3157
280	Leu	Leu	Phe	Leu	His	Leu	Phe	Ala	Leu	Met	Arg	Ala	Ala	Gly	Leu	Pro	
281				975					980					985			
283	gag	ctc	agc	tgc	tcc	aaa	gac	atc	cag	tat	ctc	aag	gac	tcc	ctg	gca	3205
284	Glu	Leu	Ser	Cys	Ser	Lys	Asp	Ile	Gln	Tyr	Leu	Lys	Asp	Ser	Leu	Ala	
285			990	_		_		995					100				
287	ctg	ggg	aaa	aca	gag	gag	gag	gca	ctg	aag	cac	ttc	cga	gtg	aag	ttt	3253
288	Leu	Gly	Lys	Thr	Glu	Glu	Glu	Ala	Leu	Lys	His	Phe	Arg	Val	Lys	Phe	
289		100					1010					101					
291	aac	qaa	qcc	ctc	cqt	gag	agc	tgg	aaa	acc	aaa	gtg	aac	tgg	ctg	gcc	3301
292	Asn	Ğlu	Āla	Leu	Arq	Glu	Ser	Trp	Lys	Thr	Lys	Val	Asn	Trp	Leu	Ala	
	1020				_	102		-	-		1030			_		1035	
			ata	tcc	aaa	qac	aac	agg	caq	tag	tgg	ctcc	tcc (	cago	cctg	gg	3351
								Arg		_							
297					1040			_									
	ccca	aaga	gga (	aaca	acta	eq q	atcqt	tagg	g ac	caage	caca	ttg	gtcc	taa a	aggg	gctgaa	3411
301	gage	ecta	aac 1	taca	ccta	ac q	qqaa	agaa	c cga	acato	ggct	gcc	tttt	gtt ·	taca	ctggtt	3471
303	att	tatt	tat (	gact	tqaaa	at a	attta	aagga	a qc	taaa	cage	cata	aaac	gga a	aacg	cctcct	3531
305	tca	toca	aca (	acaa.	tacto	aa a	cccc	ccga	d dc.	tgca	cctg	gct	ctcg	gct	gagga	attgtc	3591
307	acc	ccaa	atc	ttcc	agcto	ga t	ggato	ctag	d CC	caqca	aaag	act	gttc	tcc	taca	gaggga	3651
309	acc	ttct	tcc	cagg	cctc	cc q	ccaqa	actg	ct	gagt	cctg	gcg	cctg	gcg (	gtca	cctggt	3711
311	acci	tact	atc (	cgac	agga	ta c	cttq	atcci	t cq	taca	accc	acc	ctgt	gta	tcct	ccctag	3771
313	acto	gagt:	tct (	ggca	actc	aa a	gagg	cage	e aa	ggta	ccct	cta	gatt	cag	ggat	gcttgc	3831
										aatt			-	-		-	3868
			EQ I			,			, ,								
			ENGT														
			YPE:														
					Art	ific	ial :	Seque	ence								
			EATU:														
					ORMA'	TION	: PC	R Pr	imer								
			EQUE														
			atg														17
		_	EQ I														
			ENGT:														
			YPE:														
						ific	ial :	Sequ	ence								
								•	_								

VERIFICATION SUMMARY

DATE: 03/12/2002

PATENT APPLICATION: US/10/049,743

TIME: 17:31:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03122002\J049743.raw

L:10~M:270~C: Current Application Number differs, Replaced Application Number L:11~M:271~C: Current Filing Date differs, Replaced Current Filing Date